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CLAIMS

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Solid dispersions comprising a poorly soluble bioactive compound dispersed in a
polymer matrix, comprising more than one polymer, characterized in that a first
polymer allows a homogenous or molecular dispersion of the bioactive compound in
the polymer matrix, while a second polymer has a dissolution profile associated with
the creation of a micro-environment enhancing the dissolution of the bioactive
compound in an aqueous environment.

- 2. Solid dispersions according to claim 1 characterized in that the polymer matrix comprises a polymer having a stabilizing effect on the bioactive compound in solution.
- 3. Solid dispersions according to claims 1 or 2 wherein the polymer allowing a homogenous dispersion is PVPVA64.
- 4. Solid dispersions according to claims 1 to 3 wherein the polymer allowing enhanced dissolution of the bioactive compound in an aqueous environment is Eudragit E100.
- 5. Solid dispersions according to claims 1 or 2 wherein the polymer allowing enhanced dissolution of the bioactive compound in an aqueous environment is hydroxy-propyl methyl cellulose.
- 6. Solid dispersions according to claims 1 to 2 wherein the polymer matrix comprises Eudragit E100 and PVPVA64.
- 7. Solid dispersions according to claim 6 wherein a Eudragit E100/PVPVA64 ratio varies between 70/30 and 80/20.
- 8. Solid dispersions according to claims 1 to 2 wherein the polymer matrix comprises hydroxy-propyl methyl cellulose and PVPVA64
- 9. Solid dispersions according to claim 1 to 8 enhancing the bioavailability of an orally administered bioactive compound.
- 10. Solid dispersions according to claims 1 to 9 wherein the bioactive compound is a class II drug in the Biopharmaceutical Classification System.
- 11. Solid dispersions according to claims 1 to 9 wherein the bioactive compound is a class IV drug in the Biopharmaceutical Classification System
- 25 12. Solid dispersions according to claim 1 to 11 wherein the aqueous environment is a gastro-intestinal fluid.

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13. Solid dispersions according to claim 12 wherein the aqueous environment is a gastric fluid.

- 14. Solid dispersions according to any of the claims 1 to 13 prepared by extrusion.
- 5 15. Solid dispersion according to any of the claims 1 to 13 prepared by spray-drying.

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